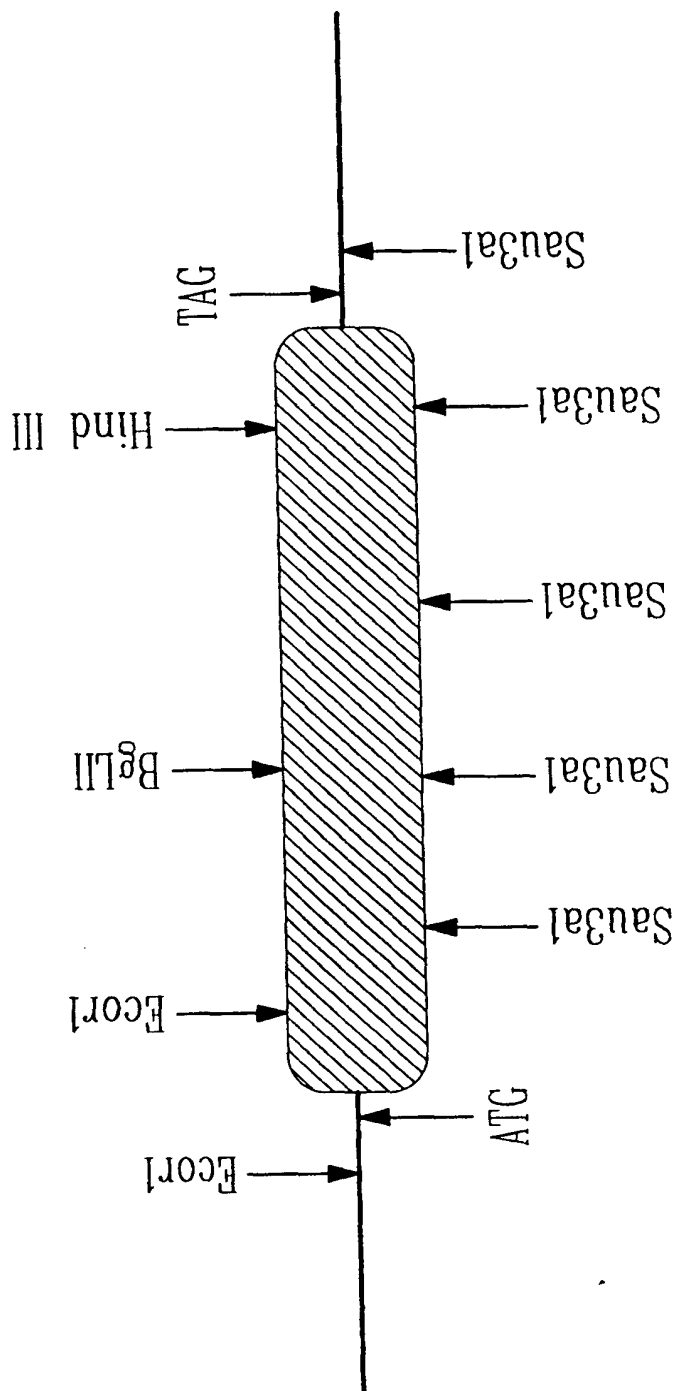


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FIG. 1A

Restriction map of the gene encoding for P-40



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1	agtgtgaaat	cttcagagaa	gaatttctct	ttagttcttt	gcaagaaaggt	agagataaag
61	acactttttc	aaaaatggca	atggtatcag	aattcctcaa	gcaggcctgg	tttattgaaa
121	atgaagagca	ggaatatgtt	caaaactgtga	agtcataccaa	aggtggtccc	ggatcagcgg
181	tgagccccta	tcctaccttc	aatccatcct	cggatgtcgc	tgccttgcct	aaggccataa
241	tggttaaaagg	tgtggatgaa	gcaaccatca	ttgacattct	aactaagcga	aacaatgcac
301	agcgtcaaca	gatcaaaagca	gcataatctcc	aggaaacagg	aaagcccctg	gatgaaacac
361	ttaagaaaagc	ccttacaggt	caccttgagg	aggttgtttt	agctctgcta	aaaactccag
421	cgcaatttga	tgctgatgaa	cttcgtgctg	ccatgaaagg	ccttggaact	gatgaagata
481	ctctaattga	gattttggca	tcaagaaacta	acaaaagaaat	cagagacatt	aacaggggtct
541	acagagagga	actgaagaga	gatctggcca	aagacataac	ctcagacaca	tctggagatt
601	ttcggaacgc	tttgctttct	cttgctaagg	gtgaccgata	tgaggacttt	ggtgtgaaatg
661	aagacttggc	tgatttcagat	gccagggcct	tgtatgaagc	aggagaaagg	agaaaagggga

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721	cagacgtaaa	cgtgttcaat	accatcctta	ccaccagaag	ctatccacaa	cttcgcagag
781	tgtttcagaa	atacaccaag	tacagtaagc	atgacatgaa	caaagtcttg	gacctggagt
841	tgaaaggtag	cattgagaaa	tgccacacag	ctatcgtgaa	gtgcgccaca	agcaaaaccag
901	ctttctttgc	agagaagcct	catcaagcca	tgaaagggtgt	tggaaactgc	cataaggcat
961	tgatcaggat	tatggtttcc	cgttctgaaa	ttgacatgaa	tgatatcaaa	gcattctcttc
1021	agaagatgta	tggtatctcc	ctttgccaaag	ccatcctgga	tgaaaccaaa	ggagatttatg
1081	agaaaaatcct	ggtggctctt	tgtggaggaa	actaaacatt	cccttgatgg	tctcaagcta
1141	tgatcagaag	actttaatta	tatatattca	tcctataagc	ttaaatagga	aagtttcttc
1201	aacaggatta	cagtgtagct	acctacatgc	tgaaaaatat	agcctttaaa	tcatttttat
1261	attataactc	tgtataatag	agataagtcc	atttttaaa	aatgttttcc	ccaaaccata
1321	aaaccctata	caagttggtc	tagtaacaat	acatgagaaa	gatgtctatg	tagctgaaaa
1381	taaaatgacg	tcacaagac				

11

77-111

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11

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MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVK
 GVDEATIIDILTKRNNARQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPA
 QFDADELRAAMKGLGTDEDTLIEILLASRTNKEIRDINRVYREELKRD LAKDITSDTSG
 DFRNALLSLAKGRSEDFGVNEDLADSDARALYEAGERRKGTDVNVFNTILTTRSYPO
 LRRVFQYTKYSKHD MNKVLDLELKGDI EKCLTAIVKCATSKPAFFAEKLHQAMKGVG
 TRHKALIRIMVSRSEIDMNDIKAFYQKMYGISLCQAILDETKGDYEKILVALCGGN

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70	*	80	*	90	*	100	*	110	*	120	*	130	*
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TTCAGCTACATAGACATCTTTCTCATGTTACTAGAACAACTTGTATAGGGTTTATGGTTTGGGGAAA
AAGTCGATGATCTGTAGAAAGAGTACAATGATCTTGTGACATATCCAAAATACCAACCCCTTT
S A T * T S F S C Y * N N L Y R V L W F G E >
F Q L H R H L S H V T R T T C I G F Y G L G K >
F , S Y I D I F L M L L E Q L V * G F M V W G K >
< * S C L C R E * T V L V V Q I P N * P K P F
< E A V Y V D K E H * * F L K Y L T K H N P S F
< K L * M S M K R M N S S C S T Y P K I T Q P F

FILE

140	150	160	170	180	190	200
*	*	*	*	*	*	*
ACATTTTAAAAAATGGACTTATCTCTATTTATACAGAGTTATAATAAAAAATGATTTAAAGGCTATA						
TGTAAAAAATTTTTTACCTGAATAGAGATAAATATGTCTCAATATTATATTTTACTAAATTTCCGATAT						
N I F K K W T Y L Y Y T E L * Y K N D L K A I >						
T F L K K N G L I S I I Q S Y N I K M I * R L Y >						
H F * K M D L S L L Y R V I I * K * F K G Y >						
<V N K F F P S I E I I C L * L I F I I * L S Y						
<M K L F H V * R * * V S N Y Y L F S K F A I						
<C K * F I S K D R N Y L T I I Y F H N L P * I						

210	220	230	240	250	260	270
*	*	*	*	*	*	*
TTTTTCAGCATG	AGTAGTACACT	GTAATCCTG	TGAAGAACTT	CCTATTTCCT	TATTAAAGCT	TATAGGAT
AAAAAGTCGTAC	ATCCATCGAT	GACATTAGG	ACAACTTCTT	TGAAGGATAA	AAATTCGAAT	ATATCCTA
F F S M * V	A T L * S	C * R N	F P I * A	Y R M>		
F, S A C R	* L H C N	P V E E T	F L F K L	I G>		
I F Q H V G	S Y T V I	L L K K L	S Y L S L	* D>		
<K E A H L	Y S C Q L	G T S S V	K R N L S	I P H		
<N K L M Y	T A V S Y	D Q Q L	F K G I * A	* L I		
<K * C T P	L * V T I	R N F F S	E * K L K	Y S		

FILE

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	350	360	370	380	390	400
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AAAGAGCCACGAGATTCTCTCATAATCTCTTTGGTTTCATCCAGGATGGCTTGCGCAAAGGGAGATA
TTTCTCGGTGTCCTAAAGAGATATTAGAGGAAACCAAGTAGTCTACCGAACCGTTTCCCTCTAT
Q R A T R I F S * S P L V S S R M A W Q R E I >
K E P P G F S H N L L W F H P G W L G K G R Y >
K' S H Q D F L I I S F G F I Q D G L A K G D >
<L S G G P N E * L R R Q N * G P H S P L P L Y
<L A V L I K E Y D G K T E D L I A Q C L S I
<F L W W S K R M I E K P K M W S P K A F P S V

GT-III

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480	490	500	510	520	530	540
*	*	*	*	*	*	*
GATCAATGCCTTATTGCGAGTTC	AACACCTTTTCATGGCTTGATGAAGCTT	CTCTGCAAAAGAAAGCT 5'				
CTAGTTACGGAATAACGCTCAAGGTTGTGGAAGTACCGAACTACTT	CGAAGACGTTTCTTCGA 3'					
I N A L L R V P T P F M A *	* S F S A K K A>					
* S M P Y C E F Q H L S W L D E A S L Q R K L>						
D Q C L I A S S N T F H G L M K L L C K E S X>						
<D I G * Q S N W C R E H S S S A E R C L F						
<I L A K N R T G V G K M A Q H L K E A F F A						
<S * H R I A L E L V K *	P K I F S R Q L S L					

HL-III

[illegible]

Vector
P-40
P-40

COLE

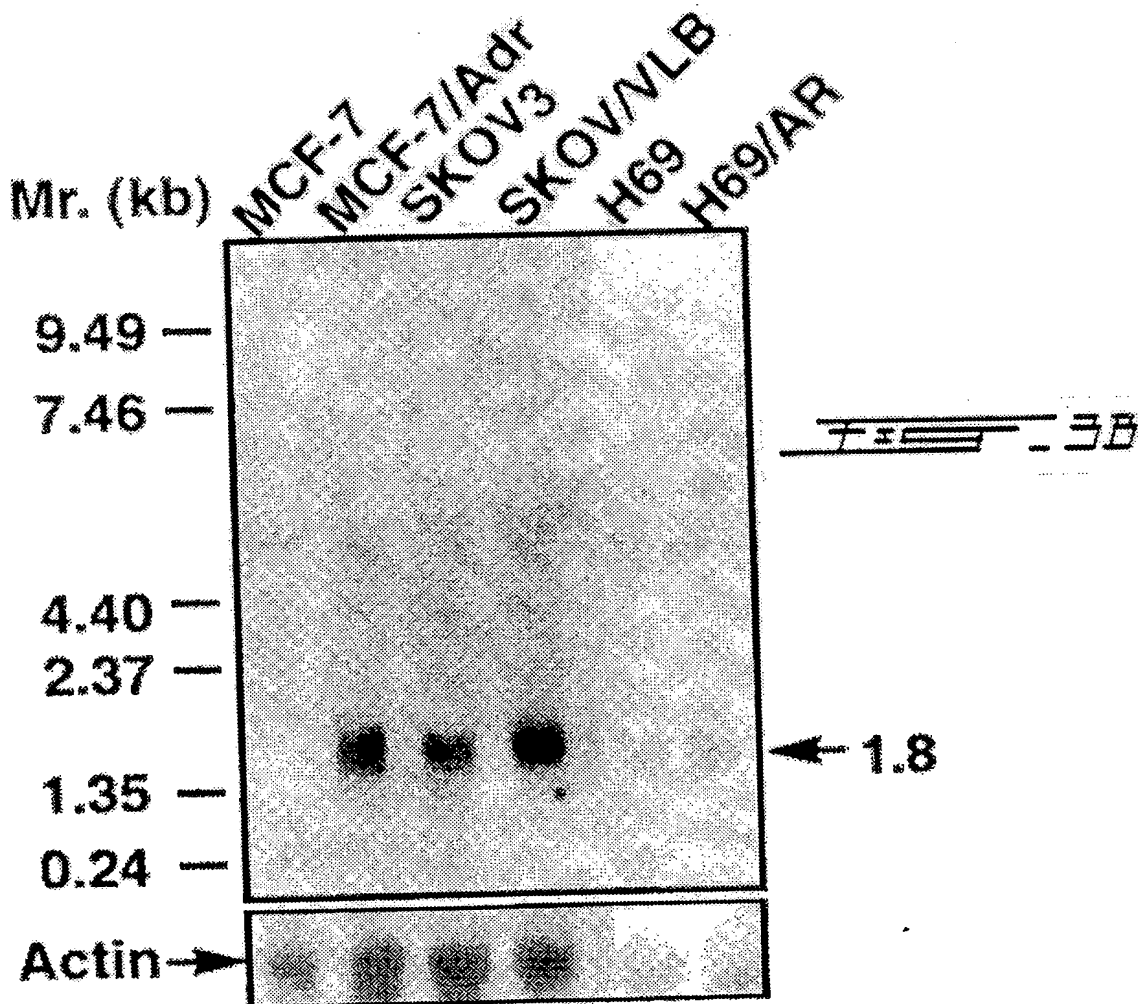
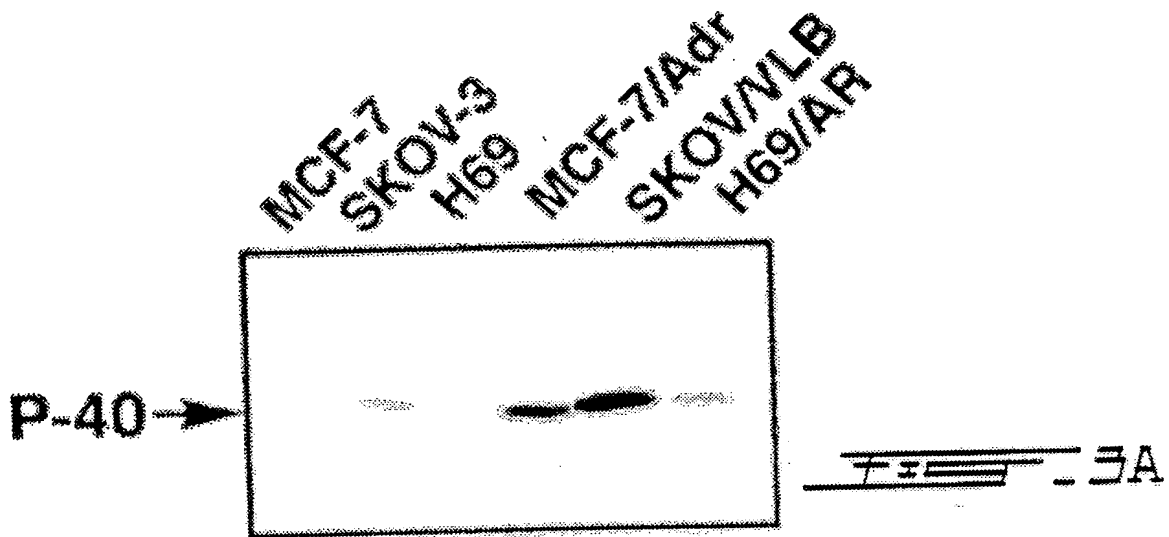
五、五

PM96 g.G2b

FEEL - VE

4042

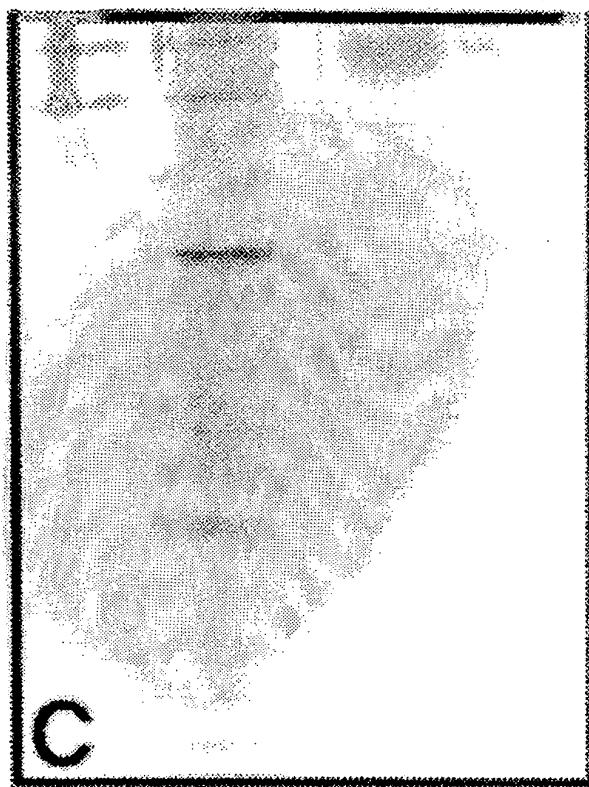
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IgG2b
IPM96
IgG2b
IPM96

P-40 →

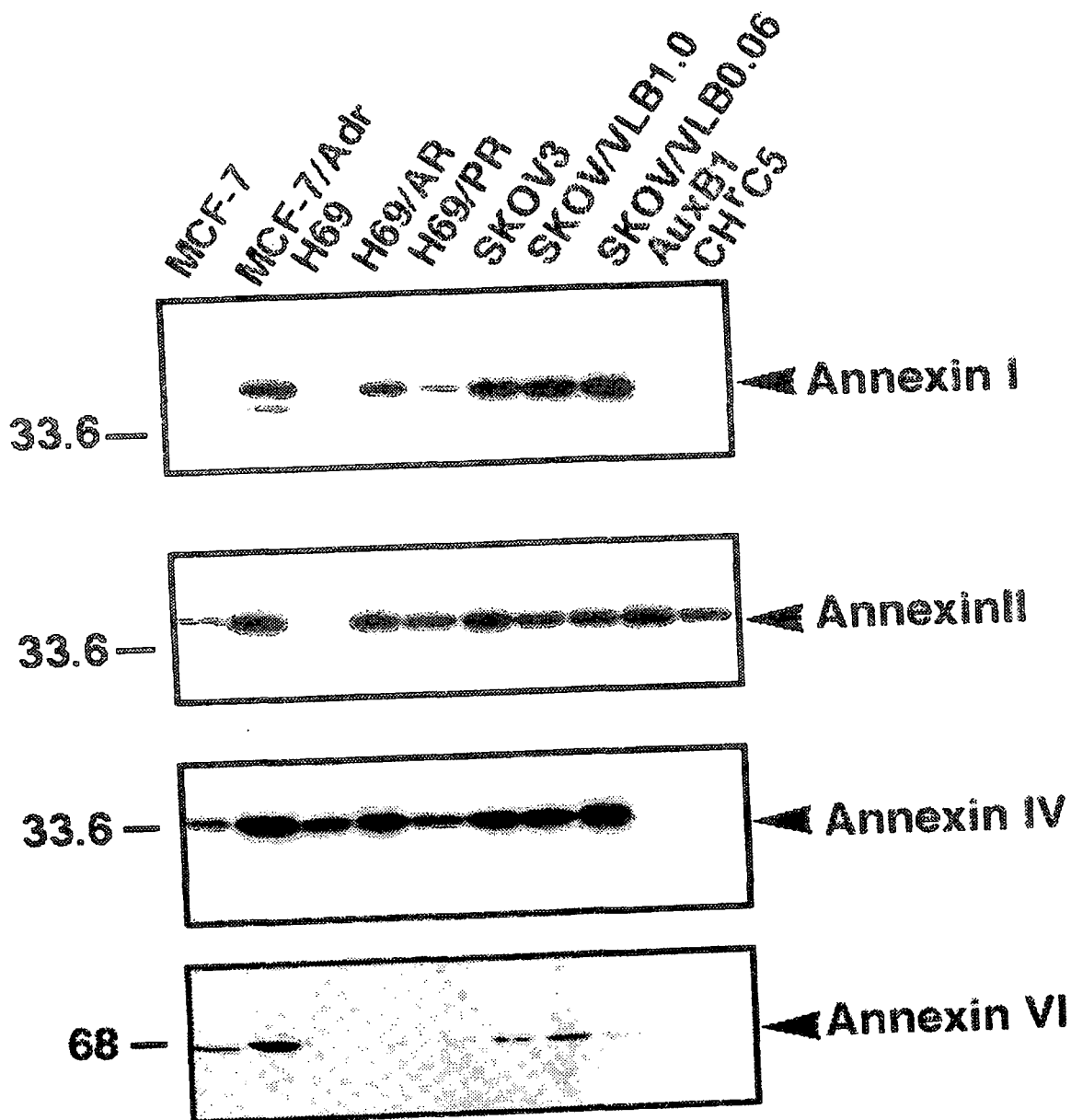


[³⁵S]Met

[³²Pi]

FIG. 4

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755-5

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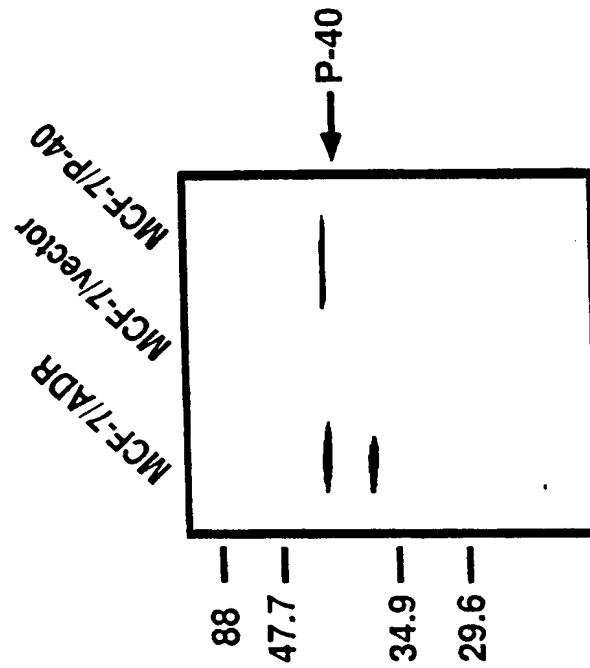
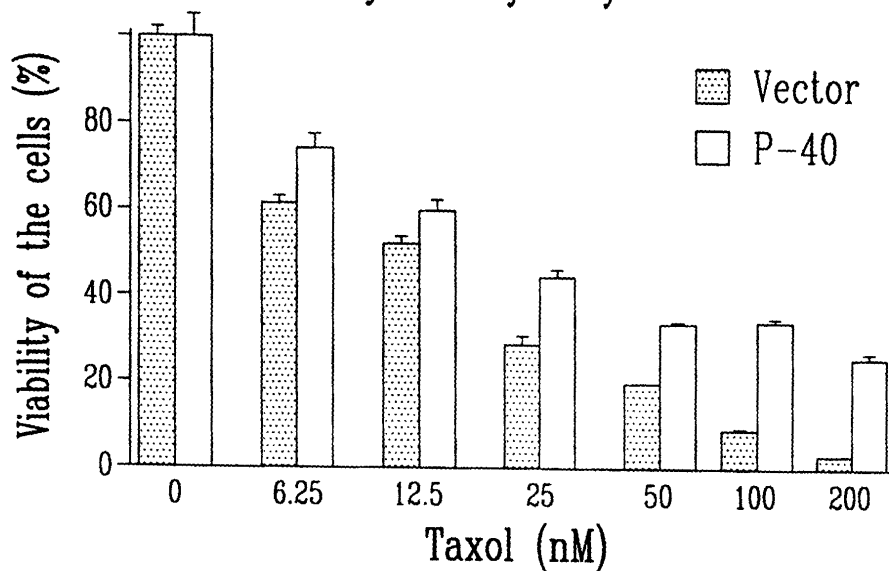


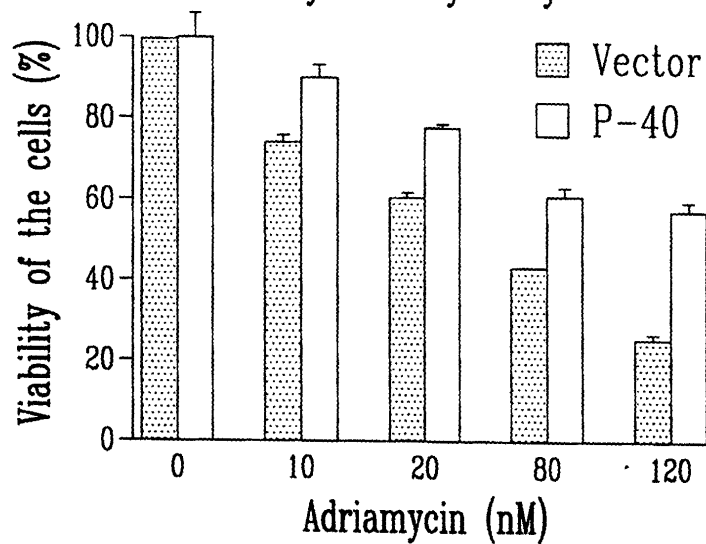
FIG. 6A

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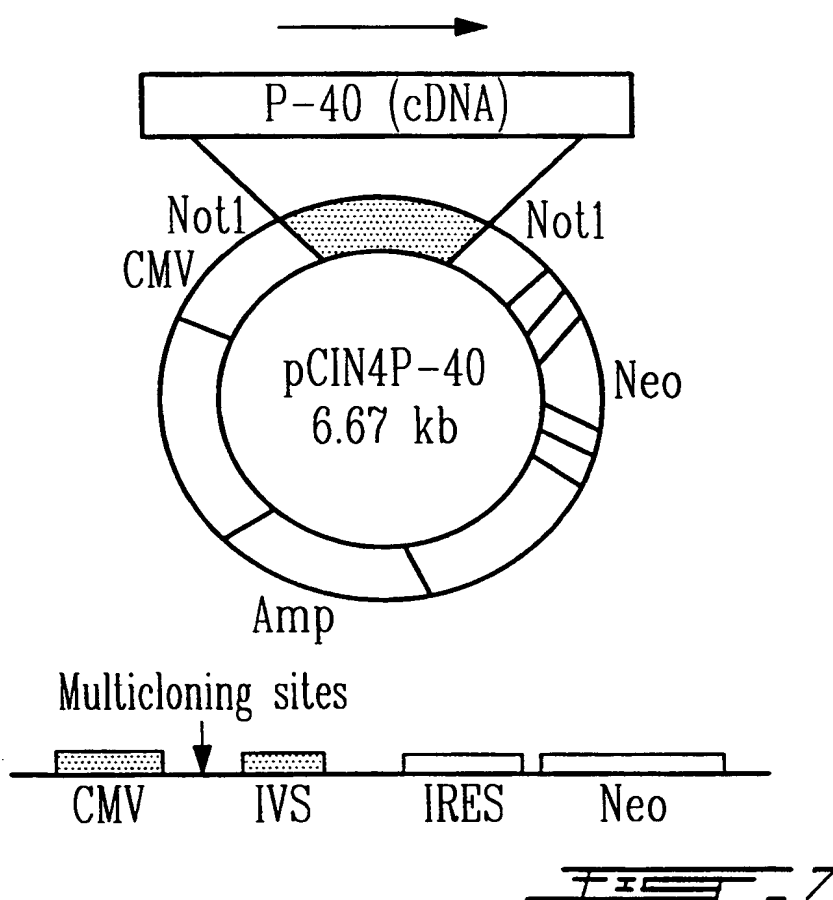
Cytotoxicity assay

FIG. 5B

Cytotoxicity assay

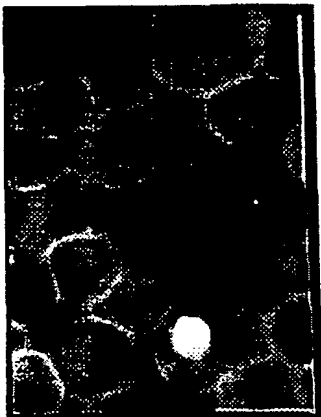
FIG. 5C

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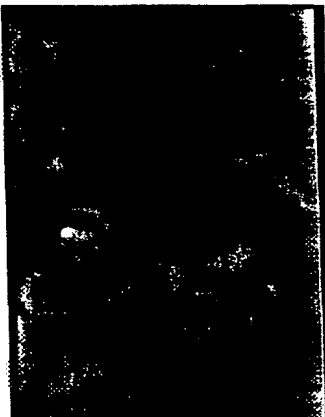


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MCF-7/Adr
(800X)



Vector-MCF-7
(600X)



P-40-MCF-7
(400X)



FIG. 10

Mr.(kDa) 1 2

109 —

78 —

46.7 —

34.5 —

26.8 —

20.5 —



←P-40

FIG. 11

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